



Utility Patent  
Ser. No. 09/758,097

**PLEASE INCLUDE THE FOLLOWING CLEAN VERSION OF THE SPECIFICATION**  
**CHANGES PURSUANT TO 37 CFR 1.121(b)(2)(ii)**

*Subj 5*  
-- 1. Detailed Description of the Figures

Referring now to FIG. 1, a portable projector 10 including a linear slide advancement mechanism 12 for retaining a plurality of otherwise conventional projector slides 14. The linear carousel mechanism 12 includes a guide rail 16 that guides and articulates a plurality of slide gripping brackets 18 that are spring urged by a slide advance spring 20 tracked between each respective gripping bracket 18 along the guide rail 16. Each respective slide 14 is articulated and urged forward toward a projector lamp 22 near a projection lens means 24 toward the front of a housing 30. A housing access door 32 is pivotally affixed to the housing 30 such as to open in a clam-shell type manner to provide access to the housing internal cavity. The housing 30 further includes a front leg 35, affixed at an exterior front portion of the housing 30, and a back leg 36, opposite to the front leg 35 and affixed at an exterior back portion of the housing 36. The front leg 35 is adjustable so as to accommodate different surfaces upon which the projector 10 might rest or to accommodate angled viewing.

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Referring to FIG. 2, the exterior of the housing 30 of the portable projector 10 is shown in greater detail. The housing 30 has an overall size, shape and function of a flashlight. A rechargeable battery pack 34 in the rear of the housing provides power to the projection lamp 22 as controlled through a switch 38. Various fixed lenses, as well as an adjustable focusing lens 40, allows the image of the slide to be projected onto any flat surface.

FIG. 3 shows in detail the placement of the projection lamp 22 relative to the slides 14.

The projection lamp 22 is pivotally articulated to the rail 16 in such a manner that it can be pivoted up into position between the lead slide 14 and the next available slide in the slide advancement mechanism 12. In this manner, the lamp can cast the image on the slide toward the projection lens means 24 for projection. As the lamp assembly 22 is pivoted out of the linear track of the slides, a new slide is urged forward by spring action and the old slide is discharged. It is anticipated that the discharged slide will then be returned to the carousel at the end of the slide advancement mechanism 12. --